

**Experiment Number:** 20313 - 01  
**Test Type:** 90-DAY  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344/NCTR

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Acrylamide  
**CAS Number:** 79-06-1

**Date Report Requested:** 09/21/2016  
**Time Report Requested:** 15:04:22  
**First Dose M/F:** 07/12/04 / 07/12/04  
**Lab:** NCTR

**NTP Study Number:** C20313  
**Lock Date:** 03/06/2013  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
<b>Disposition Summary</b>						
Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8	8	8	8	8	8
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Acute	1 (13%)					
Liver	(8)	(0)	(1)	(0)	(1)	(8)
Hematopoietic Cell Proliferation						1 (13%)
Necrosis, Focal	1 (13%)					
Left Lateral Lobe, Developmental Malformation			1 (100%)		1 (100%)	1 (13%)
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Myocardium, Inflammation, Focal	6 (75%)					5 (63%)

a - Number of animals examined microscopically at site and number of animals with lesion

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pars Distalis, Cyst						1 (13%)
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 (13%)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(8)	(0)	(8)	(8)	(8)	(8)
Exfoliated Germ Cell				2 (25%)	8 (100%)	8 (100%)
Hypospermia						8 (100%)
Preputial Gland	(8)	(0)	(1)	(0)	(1)	(8)
Inflammation, Suppurative	3 (38%)		1 (100%)			4 (50%)
Inflammation, Chronic	4 (50%)				1 (100%)	2 (25%)
Prostate	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Suppurative						2 (25%)
Inflammation, Chronic	2 (25%)					1 (13%)
Seminal Vesicle	(8)	(0)	(0)	(0)	(0)	(8)
Decreased Secretory Fluid	1 (13%)					
Dilatation	1 (13%)					
Testes	(8)	(0)	(8)	(8)	(8)	(8)
Germinal Epithelium, Degeneration				5 (63%)	8 (100%)	8 (100%)
<b>HEMATOPOIETIC SYSTEM</b>						

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 (100%)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Hyperplasia, Lymphoid	3 (38%)					
Spleen	(8)	(0)	(0)	(0)	(8)	(8)
Congestion						7 (88%)
Pigmentation						8 (100%)
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
Hemorrhage	1 (13%)					
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						6 (75%)
<b>NERVOUS SYSTEM</b>						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 (100%)
Schwann Cell, Degeneration						8 (100%)
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(0)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(0)	(8)
Axon, Degeneration						8 (100%)
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(0)	(8)

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FISCHER 344 RATS-NCTR RATS MALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Mineralization	3 (38%)					
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Goblet Cell, Hyperplasia	4 (50%)					5 (63%)
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic						1 (13%)
<b>URINARY SYSTEM</b>						
Kidney	(8)	(0)	(0)	(1)	(0)	(8)
Hydronephrosis	2 (25%)			1 (100%)		
Cortex, Inflammation, Chronic						1 (13%)
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						8 (100%)

\*\*\* END OF MALE \*\*\*

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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
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**Disposition Summary**

Animals Initially In Study	8	8	8	8	8	8
Early Deaths						
Survivors						
Terminal Sacrifice	8	8	8	8	8	8
Animals Examined Microscopically	8	3	3	1	8	8

**ALIMENTARY SYSTEM**

Esophagus	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Cecum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Rectum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Duodenum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Ileum	(8)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(8)	(0)	(0)	(0)	(0)	(8)
Liver	(8)	(1)	(3)	(0)	(0)	(8)
Granuloma	1 (13%)					
Necrosis, Focal	2 (25%)					
Left Lateral Lobe, Developmental Malformation	2 (25%)	1 (100%)	3 (100%)			3 (38%)
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 (100%)				
Pancreas	(8)	(0)	(0)	(0)	(0)	(8)
Salivary Glands	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Forestomach	(8)	(0)	(0)	(0)	(0)	(8)
Stomach, Glandular	(8)	(0)	(0)	(0)	(0)	(8)
Tongue	(8)	(0)	(0)	(0)	(0)	(8)

**CARDIOVASCULAR SYSTEM**

Blood Vessel	(8)	(0)	(0)	(0)	(0)	(8)
Heart	(8)	(0)	(0)	(0)	(0)	(8)
Artery, Inflammation	1 (13%)					
Myocardium, Inflammation, Focal	5 (63%)					2 (25%)

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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(8)	(0)	(0)	(0)	(0)	(8)
Adrenal Medulla	(8)	(0)	(0)	(0)	(0)	(8)
Islets, Pancreatic	(8)	(0)	(0)	(0)	(0)	(8)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Thyroid Gland	(8)	(0)	(0)	(0)	(0)	(8)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(8)	(0)	(1)	(0)	(0)	(8)
Inflammation, Suppurative	3 (38%)					
Inflammation, Chronic	5 (63%)		1 (100%)			6 (75%)
Ovary	(8)	(0)	(0)	(0)	(8)	(8)
Corpus Luteum, Cyst						1 (13%)
Corpus Luteum, Dysgenesis						8 (100%)
Uterus	(8)	(1)	(0)	(1)	(8)	(8)
Anestrus						8 (100%)
Dilatation		1 (100%)		1 (100%)		
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(8)	(0)	(0)	(0)	(8)	(8)
Erythroid Cell, Hyperplasia						8 (100%)
Lymph Node, Mandibular	(8)	(0)	(0)	(0)	(0)	(8)
Lymph Node, Mesenteric	(8)	(0)	(0)	(0)	(0)	(8)
Spleen	(8)	(0)	(0)	(0)	(8)	(8)

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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Congestion						8 (100%)
Pigmentation						8 (100%)
Thymus	(8)	(0)	(0)	(0)	(0)	(8)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(0)	(0)	(0)	(0)	(8)
Skin	(8)	(0)	(0)	(0)	(0)	(8)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone, Femur	(8)	(0)	(0)	(0)	(0)	(8)
Skeletal Muscle	(8)	(0)	(0)	(0)	(8)	(8)
Atrophy						7 (88%)
<b>NERVOUS SYSTEM</b>						
Brain, Brain Stem	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebellum	(8)	(0)	(0)	(0)	(0)	(8)
Brain, Cerebrum	(8)	(0)	(0)	(0)	(0)	(8)
Peripheral Nerve	(8)	(0)	(0)	(0)	(8)	(8)
Axon, Degeneration						8 (100%)
Schwann Cell, Degeneration						8 (100%)
Spinal Cord, Cervical	(8)	(0)	(0)	(0)	(4)	(8)
Spinal Cord, Lumbar	(8)	(0)	(0)	(0)	(4)	(8)
Cyst Epithelial Inclusion						1 (13%)
Axon, Degeneration						8 (100%)
Spinal Cord, Thoracic	(8)	(0)	(0)	(0)	(4)	(8)
Axon, Degeneration						2 (25%)
<b>RESPIRATORY SYSTEM</b>						
Lung	(8)	(0)	(0)	(0)	(0)	(8)

a - Number of animals examined microscopically at site and number of animals with lesion



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FISCHER 344 RATS-NCTR RATS FEMALE	CONTROL	10 UG/ML	25 UG/ML	50 UG/ML	100 UG/ML	250 UG/ML
Artery, Mineralization	1 (13%)					
Nose	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation	2 (25%)					
Goblet Cell, Hyperplasia	4 (50%)					5 (63%)
Trachea	(8)	(0)	(0)	(0)	(0)	(8)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(8)	(0)	(0)	(0)	(0)	(8)
Harderian Gland	(8)	(0)	(0)	(0)	(0)	(8)
Inflammation, Chronic	2 (25%)					1 (13%)
<b>URINARY SYSTEM</b>						
Kidney	(8)	(0)	(0)	(0)	(0)	(8)
Cortex, Inflammation, Chronic	1 (13%)					1 (13%)
Cortex, Mineralization	8 (100%)					
Urinary Bladder	(8)	(0)	(0)	(0)	(0)	(8)
Dilatation						6 (75%)

\*\*\* END OF REPORT \*\*\*

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